

HAZARDOUS MATERIALS SAFETY
HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZMAT SUMMARY BY Mode of Transportation / Cause FOR 2009

Mode of Transportation / Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
Air					
Abrasion	8	0	0	0	0
Broken Component or Device	4	0	0	0	0
Conveyer or Material Handling Equipment Mishap	13	0	0	0	0
Corrosion - Exterior	1	0	0	0	0
Corrosion - Interior	1	0	0	0	0
Defective Component or Device	44	0	0	0	515
Deterioration or Aging	6	0	0	0	0
Dropped	115	0	2	0	300,000
Forklift Accident	23	0	0	0	4,900
Freezing	2	0	0	0	0
Human Error	179	0	0	0	0
Impact with Sharp or Protruding Object (e.g., nail)	36	0	0	0	0
Improper Preparation for Transportation	199	0	7	0	0
Inadequate Blocking and Bracing	2	0	0	0	0
Inadequate Preparation for Transportation	43	0	1	0	1,153
Loose Closure, Component, or Device	10	0	3	0	0
Misaligned Material, Component, or Device	1	0	0	0	8,000
Overfilled	7	0	0	0	0
Over-pressurized	3	0	0	0	0
Threads Worn or Cross Threaded	1	0	0	0	0
Too Much Weight on Package	17	0	0	0	5,500
Valve Open	115	0	0	0	0
Vehicular Crash or Accident Damage	1	0	0	0	0
Water Damage	3	0	0	0	0
Cause Not Reported	533	0	0	0	395,871

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Highway					
Cause Not Reported	1	0	0	0	0
Cause Not Reported	2	0	0	0	0
Abrasion	109	0	1	0	645,371
Broken Component or Device	185	0	3	0	192,646
Commodity Self-Ignition	8	0	0	0	4,400
Commodity Polymerization	1	0	0	0	0
Conveyer or Material Handling Equipment Mishap	68	0	1	0	20,530
Corrosion - Exterior	32	0	1	0	18,500
Corrosion - Interior	37	0	2	0	41,406
Defective Component or Device	1,002	0	3	0	386,383
Derailment	1	0	0	0	0
Deterioration or Aging	188	1	3	0	246,016
Dropped	1,627	2	4	0	306,995
Fire, Temperature, or Heat	18	1	1	0	1,687,771
Forklift Accident	1,147	1	7	0	448,082
Freezing	32	0	0	0	15,500
Human Error	1,803	1	14	0	1,481,656
Impact with Sharp or Protruding Object (e.g., nail)	745	0	0	0	580,126
Improper Preparation for Transportation	854	1	5	0	256,998
Inadequate Accident Damage Protection	130	0	0	0	21,100
Inadequate Blocking and Bracing	1,074	0	0	0	322,013
Inadequate Maintenance	5	0	0	0	5,250
Inadequate Preparation for Transportation	544	0	4	0	169,745
Inadequate Procedures	92	0	4	0	2,020
Inadequate Training	17	0	0	0	0
Incompatible Product	8	0	0	0	39,000
Incorrectly Sized Component or Device	7	0	0	0	14,596
Loose Closure, Component, or Device	1,450	0	21	0	1,797,295
Misaligned Material, Component, or Device	33	0	0	0	12,657
Missing Component or Device	23	0	1	0	21,136
Overfilled	190	0	0	0	267,378
Over-pressurized	76	0	11	0	140,261
Rollover Accident	66	1	20	1	9,312,731
Threads Worn or Cross Threaded	12	0	1	0	7,304
Too Much Weight on Package	500	0	9	0	179,085
Valve Open	159	0	1	0	79,275
Vandalism	4	0	0	0	67,000
Vehicular Crash or Accident Damage	84	3	3	1	8,564,594
Water Damage	5	0	0	0	10,560
Cause Not Reported	533	4	29	3	8,079,375

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Rail					
Abrasion	5	0	0	0	31,768
Broken Component or Device	16	0	0	0	39,481
Conveyer or Material Handling Equipment Mishap	1	0	3	0	113,000
Corrosion - Exterior	6	0	0	0	7,123
Corrosion - Interior	9	0	0	0	61,950
Defective Component or Device	83	0	1	0	330,115
Derailment	22	2	6	1	13,983,817
Deterioration or Aging	65	1	4	0	155,066
Dropped	1	0	0	0	0
Fire, Temperature, or Heat	1	0	0	0	9,092
Forklift Accident	3	0	0	0	13,580
Human Error	32	0	1	0	131,228
Impact with Sharp or Protruding Object (e.g., nail	9	0	0	0	42,836
Improper Preparation for Transportation	27	0	2	0	71,721
Inadequate Blocking and Bracing	8	0	0	0	41,344
Inadequate Maintenance	8	0	0	0	25,906
Inadequate Preparation for Transportation	51	4	2	0	173,276
Inadequate Procedures	2	0	0	0	1,200
Incompatible Product	1	0	0	0	2,500
Loose Closure, Component, or Device	213	0	3	0	528,970
Misaligned Material, Component, or Device	27	0	4	0	38,633
Missing Component or Device	36	1	0	0	74,051
Overfilled	11	0	1	0	61,850
Over-pressurized	33	2	2	0	48,726
Rollover Accident	4	0	0	0	1,050,000
Stub Sill Separation from Tank (Tank Cars)	1	0	0	0	37,000
Threads Worn or Cross Threaded	4	0	0	0	6,350
Too Much Weight on Package	4	0	0	0	15,504
Valve Open	23	0	0	0	181,871
Vandalism	2	0	0	0	2,787
Vehicular Crash or Accident Damage	4	0	2	0	7,205
Water Damage	1	0	0	0	6,500
Cause Not Reported	26	0	0	0	663,541
Water					
Corrosion - Interior	1	0	0	0	0
Defective Component or Device	2	0	0	0	0
Deterioration or Aging	1	0	0	0	4,000
Human Error	1	0	0	0	710
Impact with Sharp or Protruding Object (e.g., nail	1	0	0	0	0
Improper Preparation for Transportation	1	0	0	0	0
Inadequate Blocking and Bracing	1	0	0	0	89,527
Loose Closure, Component, or Device	2	0	0	0	0
Overfilled	1	0	0	0	0
Cause Not Reported	77	0	0	0	6,650

Totals By Mode

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Air Incidents	1,367	0	13	0	715,939
Highway Incidents	12,872	15	149	5	35,444,755
Rail Incidents	739	10	31	1	17,957,991
Water Incidents	165	0	0	0	107,537
Total - 2009	15,066	25	193	6	54,219,572

Note: Due to multiple causes being involved in a single incident, the totals above may not correspond to the totals in the other reports.